

Recent results on De Giorgi conjecture

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I will report the progress on the research of De Giorgi conjecture, which was posed by De Giorgi in 1978, in particular, our results done with Yihong Du. The content of my talk consists of the following parts: 1. the meaning of the conjecture; 2. the results old and new; 3. outline of proofs of some simple results; 4. related problems and conjectures.